



CUWCC BMP RETAIL COVERAGE REPORT 2009-2010

Foundation Best Management Practices for Urban Water Efficiency

Agency: **Padre Dam Municipal Water District**
Retail

District Name: **Padre Dam Municipal Water District - Retail**

CUWCC Unit #: **1005**

Primary Contact: **Melissa McChesney**

Telephone: **619-258-4680**

Email: **mmcchesney@padre.org**

Compliance Option Chosen By Reporting Agency:
(Traditional, Flex Track or GPCD)

GPCD if used:

GPCD in 2010	121
GPCD Target for 2018	133

Year	Report	Target	Highest Acceptable Bound		
		% Base	GPCD	% Base	GPCD
2010	1	96.4%	157	100%	163
2012	2	92.8%	151	96%	157
2014	3	89.2%	145	93%	151
2016	4	85.6%	139	89%	145
2018	5	82.0%	133	82%	133

Not on Track if 2010 GPCD is \geq than target

GPCD in 2010 **121**

Highest

Acceptable GPCD **163**

for 2010

On Track

Agency: **Padre Dam Municipal Water District**
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Foundational BMPs

BMP 1.1 Operational Practices

		2009	2010	Conservation Coordinator provided with necessary resources to implement BMPs?
1. Conservation Coordinator provided with necessary resources to implement BMPs?	Name	Melissa McChesney	Melissa McChesney	
	Title	Communications Coordinator	Communications Coordinator	
	Email	mmcchesney@padre.org	mmcchesney@padre.org	
		On Track	On Track	
2. Water waste prevention documentation				On Track if any one of the 6 ordinance actions done, plus documentation or links provided
	Descriptive File	PadreDamRRSec5WaterRestrict	PadreDamRRSec5WaterRestrictions.pdf,	
	Descriptive File 2010		SanteeWaterEfficientLandscapeGuidelines.pdf	
	URL	Files emailed include Padre Dam's Rules and Regs section		
	URL 2010		http://www.sdcountry.ca.gov/dplu/Landscape-Ordinance_Design_Review_Manuel.html	
	Describe Ordinance Terms	Files emailed include Padre Dam's Rules and Regs section		
	Describe Ordinance Terms 2010		Files emailed include Padre Dam Rules and Regs section on Water Conservation and Water Efficiency measures, City of Santee Water	
		On Track	On Track	



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BMP 1.2 Water Loss Control

		2009	
Compile Standard Water Audit using AWWA Software?	Yes	On Track	
AWWA file provided to CUWCC?	PadreDam2009WaterAudit.xlsx	On Track	
AWWA Water Audit Validity Score?	88		
Completed Training in AWWA Audit Method?	No		
Completed Training in Component Analysis Process?	No		
Complete Component Analysis?	No		
Repaired all leaks and breaks to the extent cost effective?	Yes	On Track	
Locate and repair unreported leaks to the extent cost effective.	Yes	On Track	
Maintain a record-keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair.	No		
Provided 7 types of Water Loss Control Info			
Leaks Repaired	Value Real Losses	Value Apparent Losses	Miles Surveyed
0	\$ -	\$ -	0
			Press Reduction
			0
			Cost of Interventions
			\$ -
			Water Saved
			0

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No
Info only until 2012

Info only until 2012

Info only until 2012

Info only until 2012

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No

Info only until 2012

Info only until 2012

		2010	
Compile Standard Water Audit using AWWA Software?	Yes	On Track	
AWWA file provided to CUWCC?	PadreDamWaterAuc	On Track	
AWWA Water Audit Validity Score?	88		
Completed Training in AWWA Audit Method?	no		
Completed Training in Component Analysis Process?	No		
Complete Component Analysis?	No		
Repaired all leaks and breaks to the extent cost effective?	Yes	On Track	
Locate and repair unreported leaks to the extent cost effective.	Yes	On Track	
Maintain a record-keeping system for the repair of reported leaks, including time of report, leak location, type of leaking pipe segment or fitting, and leak running time from report to repair.			
Provided 7 types of Water Loss Control Info			
Leaks Repaired	Value Real Losses	Value Apparent Losses	Miles Surveyed
0	\$ -	\$ -	0
			Press Reduction
			Off
			Cost of Interventions
			\$ -
			Water Saved
			0

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No
Info only until 2012

Info only until 2012

Info only until 2012

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No

Info only until 2012

Info only until 2012

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1.3 METERING WITH COMMODITY RATES FOR ALL NEW CONNECTIONS AND RETROFIT OF EXISTING CONNECTIONS

Exemption or 'At least as Effective As' accepted by CUWCC

Numbered Unmetered Accounts **2008**

Metered Accounts billed by volume of use

Number of CII accounts with Mixed Use meters

Conducted a feasibility study to assess merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?

Feasibility Study provided to CUWCC?

Completed a written plan, policy or program to test, repair and replace meters

2009
0
Yes
631
No
Yes
Yes

On Track

On Track

On Track

On Track

2010
0
Yes
614
No
Yes
Yes

On Track

On Track

On Track

On Track

If signed MOU prior to 31 Dec 1997, On Track if all connections metered; If signed after 31 Dec 1997, complete meter installations by 1 July 2012 or within 6 yrs of signing and 20% biannual reduction of unmetered connections.

On Track if no unmetered accounts

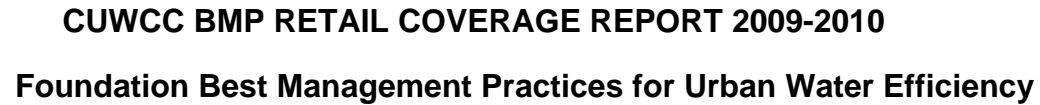
Volumetric billing required for all connections on same schedule as metering

Info only

Info only until 2012

On Track if Yes, Not on Track if No

On Track if Yes, Not on Track if No



Email: mmcchesney@padre.org

1.4 Retail Conservation Pricing

Metered Water Rate Structure

Date 2009 data received June 1, 2011

Date 2010 data received June 3, 2011

On Track if: Increasing Block, Uniform, Allocation, Standby Service; Not on Track if otherwise

[illegible]

Year Volumetric Rates began for Agencies with some Unmetered Accounts

Info only

Agencies with Partially Metered Service Areas: If signed MOU prior to 31 Dec. 1997, implementation starts no later than 1 July 2010. If signed MOU after 31 Dec. 1997, implementation starts no later than 1 July 2013, or within seven years of signing the MOU,

Notes: For both Water and Sewer, revenue is not tracked by customer class. Water's rate structure is allocation based with inclining block rates. We have various residential customer types as well as multi-family and commercial types. Each has a certain amount of water allocated in each of 5 tiers with the higher tiers being the most expensive to encourage conservation. Our Sewer rate structure is strength/volume based. Each customer type is assigned a certain rate that is charged on an estimated sewer flow based on the prior year's lowest 2 months of water consumption. Commercial accounts are based on monthly flows and are assigned a strength factor depending on what type of business operation it is.

Agency: **Padre Dam Municipal Water District**

Retail

District Name: **Padre Dam Municipal Water District - Retail** CUWCC Unit #: **1005**Coverage Report Date: **May 19, 2011**

CUWCC BMP RETAIL COVERAGE REPORT 2009-2010

Foundation Best Management Practices for Urban Water Efficiency

Adequacy of Volumetric Rates) for Agencies with No Unmetered Accounts

Customer Class	2009 Rate Type	2009 Volumetric Revenues \$1000s	2010 Rate Type	2010 Volumetric Revenues \$1000s
Other	Allocation Based	\$ 19,186	Allocation Based	\$ 19,914
Other	Select a Rate Structure	\$ -	Select a Rate Structure	\$ -
Other	Select a Rate Structure	\$ -	Select a Rate Structure	\$ -
Other	Select a Rate Structure	\$ -	Select a Rate Structure	\$ -
Other	Select a Rate Structure	\$ -	Select a Rate Structure	\$ -
Other	Select a Rate Structure	\$ -	Select a Rate Structure	\$ -
Other				
Total Revenue Commodity Charges (V):		\$ 19,186		\$ 19,914
Total Revenue Fixed Charges (M):		\$ 3,717		\$ 4,585
Calculate: V / (V + M):		84%		81%
		On Track		On Track

Agency Choices for rates:

A) Agencies signing MOU prior to 13 June2007, implementation starts 1 July2007: On Track if $(V / (V + M)) \geq 70\% \times .8 = 56\%$ for 2009 and $70\% \times 0.90 = 63\%$ for 2010; Not on track if $(V / (V + M)) < 70\%$;

B) Use Canadian model. Agencies signing MOU after 13June2007, implementation starts July 1 of year following signing.

Canadian Water & Wastewater Rate Design Model Used and Provided to CUWCC
If Canadian Model is used, was 1 year or 3 year period applied?

No
On Track

No
On Track

Wastewater Rates

Does Agency Provide Sewer Service?

2009 If 'No', then wastewater rate info not required.
Yes

2010
Yes

Customer Class	2009 Rate Type	Conserving Rate?	Customer Class	2010 Rate Type	Conserving Rate?
Other	Allocation Based	Yes	Other	Allocation Based	Yes
Other	Select a Rate Structure		Other	Select a Rate Structure	
Other	Select a Rate Structure		Other	Select a Rate Structure	
Other	Select a Rate Structure		Other	Select a Rate Structure	
		On Track			On Track

On Track if: 'Increasing Block', 'Uniform', 'based on long term marginal cost' or 'next unit of capacity'

Notes: For both Water and Sewer, revenue is not tracked by customer class. Water's rate structure is allocation based with inclining block rates. We have various residential customer types as well as multi-family and commercial types. Each has a certain amount of water allocated in each of 5 tiers with the higher tiers being the most expensive to encourage conservation. Our Sewer rate structure is strength/volume based. Each customer type is assigned a certain rate that is charged on an estimated sewer flow based on the prior year's lowest 2 months of water consumption. Commercial accounts are based on monthly flows and are assigned a strength factor depending on what type of business operation it is.



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BMP 2. EDUCATION PROGRAMS

BMP 2.1 Public Outreach Actions Implemented and Reported to CUWCC

- 1) Contacts with the public (minimum = 4 times per year)
- 2) Water supplier contacts with media (minimum = 4 times per year, i.e., at least quarterly).
- 3) An actively maintained website that is updated regularly (minimum = 4 times per year, i.e., at least quarterly).
- 4) Description of materials used to meet minimum requirement.
- 5) Annual budget for public outreach program.
- 6) Description of all other outreach programs

2009	2010
41	53
39	85
Yes	Yes
Newsletter articles on conservation Flyers and/or brochures (total copies), bill stuff Website General water conservation information Landscape water conservation media campaign News releases Articles or stories resulting from outreach Newspaper contacts	Newsletter articles on conservation Flyers and/or brochures (total copies), bill Website General water conservation information News releases Articles or stories resulting from outreach Newspaper contacts Television contacts
\$ 250,000	\$ 315,000
Description is too large for text area. Data will be stored in the BMP Reporting database when online.	Description is too large for text area. Data will be stored in the BMP Reporting database when online.
OnTrackfor 6 Actions	OnTrackfor 6 Actions

All 6 action types implemented and reported to CUWCC to be 'On Track'



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2.2 School Education Programs Implemented and Reported to CUWCC

Does a wholesale agency implement School Education Programs for this utility's benefit?

Name of Wholesale Supplier?

1) Curriculum materials developed and/or provided by agency

2) Materials meet state education framework requirements and are grade-level appropriate?

3) Materials Distributed to K-6?

Describe K-6 Materials

Materials distributed to 7-12 students?

4) Annual budget for school education program.

5) Description of all other water supplier education programs

2009	2010
Yes	Yes
San Diego County Water Authority	San Diego County Water Authority
Both wholesaler and local agency meet state standards. 3rd & 4th grade history video/dvd, "Give Water a Second Chance...Re-cycle it!" for 5th grade, Be Water Smart DVD, Water Quality Testing Kit for high school science teachers' classroom use, Water Science in a Box for 1st, 2nd and 3rd grades, "Watersheds, Water & You" student workbook for 5th grade, Water Works! school-to-career curriculum, Water Smart garden curriculum.	3rd & 4th grade history video/dvd, "Give Water a Second Chance...Re-cycle it!" for 5th grade, Be Water Smart DVD, Water Quality Testing Kit for high school science teachers' classroom use, Water Science in a Box for 1st, 2nd and 3rd grades, Watersheds, Water & You" student workbook for 5th grade, Water Works! school-to-career workbook, Water Smart garden curriculum.
Yes	Yes
Yes	Yes
3rd & 4th grade history video/dvd, "Give Water a Second Chance...Recycle it!" booklet for 5th grade, Be Water Smart DVD for 4th-6th grades, Water Science in a Box for grades 1st, 2nd and 3rd	3rd & 4th grade history video/dvd, "Give Water a Second Chance...Recycle it!" Booklet for 5th grade, Be Water Smart DVD for 4th-6th grades
Yes	Yes
\$ 11,250	\$ 9,000
Traveling Library Program, Youth and Scout Patch Program, 20-Gallon Challenge Student Pledge Contest, Splash Science Mobile Lab, H2O Where Did You Go? Theatre Program	Traveling Library Program, Youth and Scout Merit Patch Program, 20-Gallon Challenge Student Pledge Contest, WaterSm "ART" Essay Contest, Splash Science Mobile Lab, H2O Where Did You Go? Theatre Program
See Wholesale Report	See Wholesale Report
On Track	On Track

Yes/ No

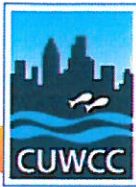
All 5 actions types implemented and reported to CUWCC to be 'On Track'

Describe materials to meet minimum requirements

Info Only

The fields in red are required.

Primary contact:



Agency name: Padre Dam Municipal Water District

First name: Melissa

Reporting unit name

(District name) Padre Dam Municipal Water District

Last name: McChesney

Reporting unit number: 1005

Email: mmcchesney@padre.org

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.

Base Year Data

[Link to FAQs](#)

Reporting Unit Base Year

Base Year: 2008

What is your reporting period?

Fiscal

BMP 1.3 Metering

Number of unmetered accounts in Base Year: 0

BMP 3.1 & BMP 3.2 & BMP 3.3 Residential Programs

Number of Single Family Customers in Base Year: 19,238

Number of Multi Family Units in Base Year: 1,676

BMP 3.4 WaterSense Specification (WSS) Toilets

Number of Single Family Housing Units constructed prior to 1992: 16334

Number of Multi Family Units prior to 1992: 9647

Average number of toilets per single family household: 2

Average number of toilets per multi family household: 1.5

Five year average resale rate of single family households: 4.89%

Five-year average resale rate of multi family households: 9.724%

Average number of persons per single family household: 3.09

Average number of persons per multi family household: 2.35

BMP 4.0 & BMP 5.0 CII & Landscape

Total water use (in Acre Feet) by CII accounts: 1612.00

Number of accounts with dedicated irrigation meters: 466

Number of CII accounts without meters or with Mixed Use Meters: 591

Number of CII accounts: 1,057

Comments:

Five year average resale rate is from Zillow and is Santee and Alpine combined. We were not able to local specific data for only the entire service area but feel this is a good representation.

Number of toilets are an estimate based on the housing structures within the service area. Number of persons is from SANDAG population reports for our service area.

The fields in red are required.



Agency name: Padre Dam Municipal Water District

Reporting unit name

(District name) Padre Dam Municipal Water District

Reporting unit number:

1005

Primary contact:

First name: Melissa

Last name: McChesney

Email: mmcchesney@padre.org

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.

[Link to FAQs](#)

2009

BMP 1.1 Operations Practices

Comments:

Padre Dam participated in the planning process for both the City of Santee and County of San Diego landscape ordinances. Padre Dam supports conservation legislation through the ACWA Outreach Program.

[See the complete MOU:](#) [View MOU](#)

[See the coverage requirements for this BMP:](#)

Conservation Coordinator

Conservation Coordinator ☒ Yes ☐ No

Contact Information

First Name: Melissa

Last Name: McChesney

Title: Communications Coordinator

Phone: 619-258-4680

Email: mmcchesney@padre.org

Note that the contact information may be the same as the primary contact information at the top of the page. If this is your case, excuse the inconvenience but please enter the information again.

Water Waste Prevention

Water Agency shall do one or more of the following:

- Enact and enforce an ordinance or establish terms of service that prohibit water waste
- Enact and enforce an ordinance or establish terms of service for water efficient design in new development
- Support legislation or regulations that prohibit water waste
- Enact an ordinance or establish terms of service to facilitate implementation of water shortage response measures
- Support local ordinances that prohibit water waste
- Support local ordinances that establish permits requirements for water efficient design in new

To document this BMP, provide the following:

- A description of, or electronic link to, any ordinances or terms of service
- A description of, or electronic link to, any ordinances or requirements adopted by local jurisdictions or regulatory agencies with the water agency's service area.
- A description of any water agency efforts to cooperate with other entities in the adoption or enforcement of local requirement
- description of agency support positions with respect to adoption of legislation or regulations

You can show your documentation by providing files, links (web addresses), and/or entering a description.

File name(s): Email files to natalie@cuwcc.org

PadreDamRRSec5WaterRestrictions.pdf, SanteeWaterEfficientLandscapeGuidelines.pdf

Web address(s) URL: comma-separated list

http://www.sdcounty.ca.gov/dplu/Landscape-Ordinance_Design_Review_Manual.html

Enter a description:

Files emailed include Padre Dam's Rules and Regs section on Water Conservation and Water Efficiency measures, City of Santee Water Efficient Landscape Ordinance and a link to the San Diego County Landscape Ordinance.

The fields in red are required.

Primary contact:



Agency name: Padre Dam Municipal Water District

First name: Melissa

Reporting unit name
(District name) Padre Dam Municipal Water District

Last name: McChesney

Reporting unit number: 1005

Email: mmcchesney@padre.org

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.

[Link to FAQs](#)

[View MOU](#)

2009 BMP 1.2 Water Loss Control

AWWA Water Audit

Agency to complete a Water Audit & Balance Using The AWWA Software ☒ Yes ☐ No
Email to natalie@cuwcc.org - Worksheets (AWWA Water Audit). Enter the name of the file below:

PadreDam2009WaterAudit.xlsx

Water Audit Validity Score
from AWWA spreadsheet

88

Agency Completed Training In The AWWA Water Audit Method ☐ Yes ☒ No

Agency Completed Training In The Component Analysis Process ☐ Yes ☒ No

Completed/Updated the Component Analysis (at least every 4 years)? ☐ Yes ☒ No

Component Analysis Completed/Updated Date

Water Loss Performance

Agency Repaired All Reported Leaks & Breaks To The Extent Cost Effective ☒ Yes ☐ No

Recording Keeping Requirements:

Date/Time Leak Reported	Leak Location
Type of Leaking Pipe Segment or Fitting	Leak Running Time From Report to Repair
Leak Volume Estimate	Cost of Repair

Agency Located and Repaired Unreported Leaks to the Extent Cost Effective ☒ Yes ☐ No

Type of Program Activities Used to Detect Unreported Leaks

We bring in a third party agency when necessary.

Annual Summary Information

Complete the following table with annual summary information (required for reporting years 2-5 only)

Total Leaks Repaired	Economic Value Of Real Loss	Economic Value Of Apparent Loss	Miles Of System Surveyed For Leaks	Pressure Reduction Undertaken for loss reduction	Cost Of Interventions	Water Saved (AF/Year)

Comments:

AWWA WLCC Free Water Audit Software: Reporting Worksheet

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WASv41

[Back to Instructions](#)

[?](#) Click to access definition

Water Audit Report for: **Padre Dam Municipal Water District**

Reporting Year: **2009** **7/2008 - 6/2009**

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: **ACRE-FEET PER YEAR**

WATER SUPPLIED

<< Enter grading in column 'E'

Volume from own sources:	?	10		acre-ft/yr
Master meter error adjustment (enter positive value):	?	10		acre-ft/yr
Water imported:	?	10	18,538.400	acre-ft/yr
Water exported:	?	10	3,883.390	acre-ft/yr
WATER SUPPLIED:			14,655.010	acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	?	10	14,178.380	acre-ft/yr
Billed unmetered:	?	5	0.002	acre-ft/yr
Unbilled metered:	?	10		acre-ft/yr
Unbilled unmetered:	?	10	183.188	acre-ft/yr
Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed				
AUTHORIZED CONSUMPTION:	?		14,361.569	acre-ft/yr

Click here: [?](#)
for help using option buttons below

Pcnt: [?](#) Value: [?](#)

Use buttons to select percentage of water supplied OR value

WATER LOSSES (Water Supplied - Authorized Consumption)

293.441 acre-ft/yr

Apparent Losses

Unauthorized consumption:	?	10	36.638	acre-ft/yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed				
Customer metering inaccuracies:	?	5	143.216	acre-ft/yr
Systematic data handling errors:	?	5		acre-ft/yr
Systematic data handling errors are likely; please enter a non-zero value; otherwise grade = 5				
Apparent Losses:	?		179.853	

Pcnt: [?](#) Value: [?](#)

1.00% [?](#)

Choose this option to enter a percentage of billed metered consumption. This is NOT a default value

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses:	?	10	113.587	acre-ft/yr
WATER LOSSES:			293.441	acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: [?](#) 476.628 acre-ft/yr

Total Water Loss + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	?	10	389.0	miles
Number of active AND inactive service connections:	?	5	23,333	
Connection density:	?	10	60	conn./mile main
Average length of customer service line:	?	5	10.0	ft (pipe length between curbstops and customer meter or property boundary)
Average operating pressure:	?	5	100.0	psi

COST DATA

Total annual cost of operating water system:	?	10	\$27,594,249	\$/Year
Customer retail unit cost (applied to Apparent Losses):	?	5	\$3.54	\$/100 cubic feet (ccf)
Variable production cost (applied to Real Losses):	?	5	\$1,260.68	\$/acre-ft/yr

PERFORMANCE INDICATORS

Financial Indicators

Non-revenue water as percent by volume of Water Supplied:	3.3%
Non-revenue water as percent by cost of operating system:	2.4%
Annual cost of Apparent Losses:	\$277,338
Annual cost of Real Losses:	\$143,197

Operational Efficiency Indicators

Apparent Losses per service connection per day:	6.88	gallons/connection/day
Real Losses per service connection per day*:	4.35	gallons/connection/day
Real Losses per length of main per day*:	N/A	
Real Losses per service connection per day per psi pressure:	0.04	gallons/connection/day/psi
? Unavoidable Annual Real Losses (UARL):	216.66	million gallons/year
From Above, Real Losses = Current Annual Real Losses (CARL):	113.59	million gallons/year
? Infrastructure Leakage Index (ILI) [CARL/UARL]:	0.17	

* only the most applicable of these two indicators will be calculated

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 88 out of 100 ***

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

1: Unauthorized consumption

2: Systematic data handling errors

3: Variable production cost (applied to Real Losses)

[For more information, click here to see the Grading Matrix worksheet](#)

The fields in red are required.

Primary contact:

Agency name: Padre Dam Municipal Water District

First name: Melissa

Reporting unit name

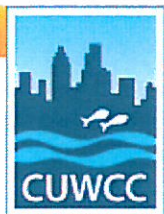
(District name) Padre Dam Municipal Water District

Last name: McChesney

Reporting unit number: 1005

Email: mmcchesney@padre.org

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.



BMP 1.3 Metering with Commodity

[Link to FAQs](#)

See the complete MOU: [View MOU](#)

See the coverage requirements for this BMP:

Implementation

Does your agency have any unmetered service connections?

☐ Yes ☒ No

If YES, has your agency completed a meter retrofit plan?

☒ Yes ☐ No

Enter the number of previously unmetered accounts fitted with meters during reporting year:

Are all new service connections being metered?

☒ Yes ☐ No

Are all new service connections being billed volumetrically?

☒ Yes ☐ No

Has your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters?

☒ Yes ☐ No

Please Fill Out The Following Matrix

Account Type	# Metered Accounts	# Metered Accounts Read	# Metered Accounts Billed by Volume	Billing Frequency Per Year	# of estimated bills/yr
Single-Family	19,470	19,470	19,470	Bi-monthly	84
Multi-Family	1,688	1,688	1,688	Bi-monthly	7
Commercial	1,149	1,149	1,149	Bi-monthly	8
Dedicated Irrigatic	518	518	511	Bi-monthly	5
Agricultural	7	7	7	Monthly	0
Fire Lines	10	10		Bi-monthly	0
Other				Other	1
Other				Other	
Other				Other	
Other				Other	

Number of CII Accounts with Mixed-use Meters

631

Number of CII Accounts with Mixed-use Meters Retrofitted with Dedicated Irrigation Meters during Reporting Period

0

Feasibility Study

Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?

☐ Yes ☒ No

If YES, please fill in the following information:

A. When was the Feasibility Study conducted

B. Email or provide a link to the feasibility study (or description of):

File name(s): Email files to natalie@cuwcc.org

Enter the file name here e.g. WaterWastePreventionOrdinan

Web address(s) URL: comma-separated list

Enter the URL to your documentation.

General Comments about BMP 1.3:

CII Mixed-Use meters are determined by taking the total number of CII accounts and

The fields in red are required.

Primary contact:



Agency name:

Padre Dam Municipal Water District

First name:

Melissa

Division name
(Reporting unit)

Padre Dam Municipal Water District

Last name:

McChesney

Reporting unit number:

1005

Email:

mmcchesney@padre.org

WATER SOURCES

Service Area Population: 90194

Potable Water

Own Supply Source Name	AF/YEAR	Water Supply Type	Water Supply Description
n/a	0.00	Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	

Imported Supply Source Name	AF/YEAR	Water Supply Type	Water Supply Description
San Diego County Water Authority	14,653.30	Surface	Water purchased from wholesaler
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	
		Other	

Exported Water Name	AF/YEAR	Where Exported?

2009

Primary contact:

First name: Melissa

Last name: McChesney

Email: mmcchesney@padre.org



Non- Potable Water

[illegible][illegible][illegible]

The fields in red are required.

Primary contact:

Agency name: Padre Dam Municipal Water District

First name:

Division name
(Reporting unit) Padre Dam Municipal Water Distr

Last name: McChesney

Reporting unit number: 1005

Email: mmcchesney@padre.org



Water Uses 2009

Potable Water Billed

Make sure to enter numbers in AF/Year.

[illegible]

Potable Water Un-Billed

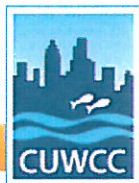
[illegible]

Primary contact:

First name:

Last name: McChesney

Email: mmcchesney@padre.org



Non-Potable Billed

[illegible]

Non-Potable Un-Billed

[illegible]

The fields in red are required.

Agency name: Padre Dam Municipal Water District

Reporting unit name

(District name) Padre Dam Municipal Water District

Reporting unit number: 1005

Primary contact:

First name: Melissa

Last name: McChesney

Email: mmcchesney@padre.org

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.



2009

BMP 1.4 Retail Conservation Pricing

[Link to FAQs](#)

[View MOU](#)

If you are reporting more rate structures than this form allows, add the structures to a spreadsheet and send the file to natalie@cuwcc.org.

Implementation (Water Rate Structure)

Enter the Water Rate Structures that are assigned to the majority of your customers, by customer class

Rate Structure	Customer Class	Total Revenue	Commodity Charges	Total Revenue Customer Meter/Service (Fixed Charges)
Allocation Based	Other	19,186,162.00		3,718,655.00
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			

Implementation Option (Conservation Pricing Option)

- ☒ Use Annual Revenue As Reported
☐ Use Canadian Water & Wastewater Association Rate Design Model

If CWWA is select, enter the file name and email the spreadsheet to natalie@cuwcc.org

Retail Waste Water (Sewer) Rate Structure by Customer Class

Agency Provide Sewer Service

☒ Yes ☐ No

Select the Retail Waste Water(Sewer) Rate Structure assigned to the majority of your customers within a specific customer class.

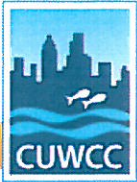
Rate Structure	Customer Class	Total Revenue	Commodity Charges	Total Revenue Customer Meter/Service (Fixed Charges)
Other	Other	7,800,278.00		5,200,186.00
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			

Comments:

For both Water and Sewer, revenue is not tracked by customer class. Water's rate s

The fields in red are required.

Primary contact:



Agency name: Padre Dam Municipal Water District

First name: Melissa

Reporting unit name

(District name) Padre Dam Municipal Water District

Last name: McChesney

Reporting unit number: 1005

Email: mmcchesney@padre.org

Click here to open a table that displays your agency name reporting unit name and reporting unit number. Please ensure that you enter the correct information.

[Link to FAQs](#)

[View MOU](#)

2009

BMP 2.1 Public Outreach - Retail Reporting

Is a Wholesale Agency Performing Public Outreach?

Are there one or more wholesale agencies performing public outreach which can be counted to help your agency comply with the BMP?

☒ Yes ☐ No

Enter the name(s) of the wholesale agency (comma delimited)

San Diego County Water Authority

Is your agency performing public outreach?

Report a minimum of 4 water conservation related contacts your agency had with the public during the year.

Public Information Programs List

Did at least one contact take place during each quarter of the reporting year? ☒

Number of Public Contacts	Public Information Programs
9	Newsletter articles on conservation
20	Flyers and/or brochures (total copies), bill stuffers, messages printed on bill, information packets
8	Website
3	General water conservation information
1	Landscape water conservation media campaigns

Contact with the Media

Are there one or more wholesale agencies performing media outreach which can be counted to help your agency comply with the BMP?

☒ Yes ☐ No

Enter the name(s) of the wholesale agency (comma delimited)

San Diego County Water Authority

OR Retail Agency (Contacts with the Media)

Did at least one contact take place during each quarter of the reporting year? ☒

Media Contacts List

Number of Media Contacts	Did at least one contact take place during each quarter of the reporting year?	Media Contact Types
2		News releases
8		Articles or stories resulting from outreach
15		Newspaper contacts
14		Television contacts
		Select a type of media contact
		Select a type of media contact

Is a Wholesale Agency Performing Website Updates?

Did one or more CUWCC wholesale agencies agree to assume your agency's responsibility for meeting the requirements of and for CUWCC reporting of this BMP? ☒ Yes ☐ No

Enter the name(s) of the wholesale agency (comma delimited)

San Diego County Water Authority

Is Your Agency Performing Website Updates?

Enter your agency's URL (website address):

www.padredam.org

Describe a minimum of four water conservation related updates to your agency's website that took place during the year:

Conservation Program Updates - Residential and Commercial
Water Supply Information
Drought Messaging
Web Links to conservation tip sites including: Save Our Water, 20-gallon challenge

Did at least one Website Update take place during each quarter of the reporting year? ☒ Yes ☐ No

Public Outreach Annual Budget

Enter budget for public outreach programs. You may enter total budget in a single line or break the budget into discrete categories by entering many rows. Please indicate if personnel costs are included in the entry.

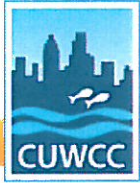
Category	Amount	Personnel Costs Included? If yes, check the box.	Comments
Public Information	\$250,000	<input checked="" type="checkbox"/>	Programs, and staff time
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	

Comments:

Annual Budget includes program related costs and staff expenses.

The fields in red are required.

Primary contact:



Agency name:

Padre Dam Municipal Water Distr

First name

Melissa

Division name
(Reporting unit)

Padre Dam Municipal Water Distr

Last name

McChesney

Reporting unit number

1005

Email:

mmcchesney@padre.org

Service Area Population: 72370

Non- Potable Water

If you select Other for type, enter

Own Supply Source Name	AF/YEAR	Water Supply Type	Water Supply Description
Water Recycling Facility	1,760.57	Recycled Non Potable	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	

Imported Supply Source Name	AF/YEAR	Water Supply Type	Water Supply Description
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	
		Select a water type.	

Exported Water Name	AF/YEAR	Where Exported? such as groundwater recharge, retail,

2009

The fields in red are required.



Agency name: Padre Dam Municipal Water District

Reporting unit name

(District name) Padre Dam Municipal Water District

Reporting unit number: 1005

Primary contact:

First name: Melissa

Last name: McChesney

Email: mmcchesney@padre.org

Click here to open a table that displays your agency name reporting unit name and reporting unit number. Please ensure that you enter the correct information.

[Link to FAQs](#)

2009

BMP 2.1 Public Outreach Cont'd

[View MOU](#)

Public Outreach Expenses

Enter expenses for public outreach programs. Please include the same kind of expenses you included in the question related to your budget (Section 2.1.7, above). For example, if you included personnel costs in the budget entered above, be sure to include them here as well.

Expense Category	Expense Amount	Personnel Costs Included?	
Public Outreach	\$275,965	<input checked="" type="checkbox"/>	If yes, check the check box.
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	

Additional Public Information Program

Please report additional public information contacts. List these additional contacts in order of how your agency views their importance / effectiveness with respect to conserving water, with the most important/ effective listed first (where 1 = most important).

Were there additional Public Outreach efforts?

☒ Yes ☐ No

Public Outreach Additional Information

Public Information Programs	Importance	
Water Efficient Landscape Classes	\$1	
Conservation Summit with local agencies	\$2	
HOA Workshops	\$3	

Social Marketing Programs

Branding

Does your agency have a water conservation "brand," "theme" or mascot? ☐ Yes ☒ No

Describe the brand, theme or mascot.

Market Research

Have you sponsored or participated in market research to refine your message? ☐ Yes ☒ No

Market Research Topic

Brand Message

Brand Mission Statement

Community Committees

Do you have a community conservation committee?

☒ Yes ☐ No

Enter the names of the community committees:

Blossom Valley Task Force
Public Agency Work Group

Training

Training Type	# of Trainings	# of Attendees	Description of Other
Water Efficient Lands	\$5	\$100	Customers learn the basics needed to create a water efficient
Bye Bye Grass	\$4	\$80	teaches customers how to get rid of water thirsty grass
Drought Rates and V	\$4	\$50	Educated customers about the water supply conditions and

Social Marketing Expenditures

Public Outreach Social Marketing Expenses

Expense Category	Expense Amount	Description

Partnering Programs - Partners

Name

Type of Program

☐ CLCA?

☐ Green Building Programs?

☐ Master Gardeners?

☐ Cooperative Extension?

☐ Local Colleges?

☒ Other

Santee Chamber of Commerce

☐ Retail and wholesale outlet; name(s) and type(s) of programs:

Partnering Programs - Newsletters

Number of newsletters per year

2

Number of customers per year

24,000

Partnering with Other Utilities

Describe other utilities your agency partners with, including electrical utilities

Metropolitan Water District and San Diego County Water Authority provide public outreach messages on a regional level - Padre Dam helps develop the outreach message. We also partner with San Diego Gas and Electric to provide water efficient showersheads and aerator.

Conservation Gardens

Describe water conservation gardens at your agency or other high traffic areas or new

Our Board of Directors approved replacing 15,000 SF of grass with a water efficient landscape garden. Installation will occur in FY 10.

Landscape contests or awards

Describe water wise landscape contest or awards program conducted by your agency

Padre Dam partners with our local water districts to offer an annual water efficient landscape contest for residential properties.

Comments:

The fields in red are required

Primary contact:

Click here to open a table that displays your agency name reporting unit name and reporting unit number. Please ensure that you enter the correct information.



Agency name **Padre Dam Municipal Water District**

First name **Melissa**

Reporting unit name
(District name) **Padre Dam Municipal Water District**

Last name **McChesney**

Reporting unit number: **1005**

Email: **mmcchesney@padre.org**

[Link to FAQs](#)

[View MOU](#)

2009

BMP 2.2 School Education Programs, Retail Agencies School Programs

Is a wholesale agency implementing school programs which can be counted to help your agency comply with this BMP?

☒ Yes ☐ No

Enter Wholesaler Names, separated by commas:

San Diego County Water Authority

☒ Materials meet state education framework requirements?

Description of Materials

Both wholesaler and local agency meet state standards. 3rd & 4th grade history video/dvd, "Give Water a Second Chance - Re-cycle it!" for 5th grade, Be Water Smart DVD, Water Quality Testing Kit for high school science teachers' classroom use, Water Science in a Box for 1st, 2nd and 3rd grades, "Watersheds, Water & You" student workbook for 5th grade, Water Works! school-to-career curriculum, Water Smart garden curriculum

☒ Materials distributed to K-6 Students?

Description of materials distributed to K-6 Students

3rd & 4th grade history video/dvd, "Give Water a Second Chance...Recycle it!" booklet for 5th grade, Be Water Smart DVD for 4th-6th grades, Water Science in a Box for grades 1st, 2nd and 3rd

Number of students reached

3,500

☒ Materials distributed to 7-12 Students?

Description of materials distributed to 7-12 Students

Water quality testing kits to high school science teachers for use in their classrooms through our wholesale agency, Water supply maps and information provided through powerpoint presentation to students.

Number of Distribution

100

Annual budget for school education program

\$11,250.00

Description of all other water supplier education programs

Traveling Library Program, Youth and Scout Patch Program, 20-Gallon Challenge Student Pledge Contest, Splash Science Mobile Lab, H2O Where Did You Go? Theatre Program

School Program Activities

Classroom presentations:

Number of presentations

43

Number of attendees

920

Large group assemblies:

Number of presentations

3

Number of attendees

477

Children's water festivals or other events:

Number of presentations

0

Number of attendees

0

Cooperative efforts with existing science/water education programs (various workshops, science fair awards or judging) and follow-up:

Number of presentations

1

Number of attendees

60

Other methods of disseminating information (i.e. themed age-appropriate classroom loaner kits):

We do provide kits any grade level requested including a water testing kit. This year we did not have any interest in borrowing this information. Most teachers preferred to have us just come and visit there class. 4th Grade Water History and 5th Grade Water Curriculum, and Be Water Smart DVD's available to teachers.

Description			
Number distributed	2		
Staffing children's booths at events & festivals:			
Number of booths	0		
Number of attendees			n/a

Water conservation contests such as poster and photo:

Water Conservation Poster Contest - invited all 1-8 students in Padre Dam's service area to participate in a poster conservation by drawing an image and creating a message about water conservation.

Number distributed	250 entries		
Offer monetary awards/funding or scholarships to students:			
Number Offered	2	Total Funding	\$750.00

Teacher training workshops:

Number of presentations	2	Number of attendees	2
-------------------------	---	---------------------	---

Fund and/or staff student field trips to treatment facilities, recycling facilities, water conservation gardens, etc.:

Number of tours or field trips	32	Number of participants	716
--------------------------------	----	------------------------	-----

College internships in water conservation offered:

Number of internships	1	Total funding	\$2500.00
-----------------------	---	---------------	-----------

Career fairs/workshops:

Number of presentations	2	Number of attendees	over 1,000
-------------------------	---	---------------------	------------

Additional program(s) supported by agency but not mentioned above:

Description	n/a All activities covered in information above.
-------------	--

Number of events (if applicable)	0	Number of participants	0
----------------------------------	---	------------------------	---

Total reporting period budget expenditures for school education programs (include all agency costs):

\$9575.00

Comments

--

The fields in red are required.

Primary contact:



Agency name: Padre Dam Municipal Water District

First name: Melissa

Reporting unit name

(District name) Padre Dam Municipal Water District

Last name: McChesney

Reporting unit number: 1005

Email: mmcchesney@padre.org

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.

[Link to FAQs](#)

See the complete MOU: [View MOU](#)

See the coverage requirements for this BMP:

2010

BMP 1.1 Operations Practices

Comments:

Padre Dam participated in the planning process for both the City of Santee and County of San Diego landscape ordinances. Padre Dam supports conservation legislation through the ACWA Outreach Program.

Conservation Coordinator

Conservation Coordinator ☒ Yes ☐ No

Contact Information

First Name: Melissa

Last Name: McChesney

Title: Communications Coordinator

Phone: 619-258-4680

Email: mmcchesney@padre.org

Note that the contact information may be the same as the primary contact information at the top of the page. If this is your case, excuse the inconvenience but please enter the information again.

Water Waste Prevention

Water Agency shall do one or more of the following:

- Enact and enforce an ordinance or establish terms of service that prohibit water waste
- Enact and enforce an ordinance or establish terms of service for water efficient design in new development
- Support legislation or regulations that prohibit water waste
- Enact an ordinance or establish terms of service to facilitate implementation of water shortage response measures
- Support local ordinances that prohibit water waste
- Support local ordinances that establish permits requirements for water efficient design in new

To document this BMP, provide the following:

- A description of, or electronic link to, any ordinances or terms of service
- A description of, or electronic link to, any ordinances or requirements adopted by local jurisdictions or regulatory agencies with the water agency's service area.
- A description of any water agency efforts to cooperate with other entities in the adoption or enforcement of local requirement
- description of agency support positions with respect to adoption of legislation or regulations

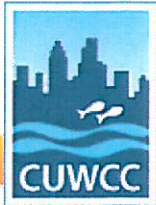
You can show your documentation by providing files, links (web addresses), and/or entering a description.

File name(s): Email files to natalie@cuwcc.org PadreDamRRSec5WaterRestrictions.pdf, SanteeWaterEfficientLandscapeGuidelines.pdf

Web address(s) URL: comma-separated list http://www.sdcounty.ca.gov/dplu/Landscape-Ordinance_Design_Review_Manuel.html

Enter a description: Files emailed include Padre Dam Rules and Regs section on Water Conservation and Water Efficiency measures, City of Santee Water Efficient Landscape Ordinance and a link to the San Diego County Landscape Ordinance.

The fields in red are required.



Agency name: Padre Dam Municipal Water District

Reporting unit name

(District name) Padre Dam Municipal Water District

Reporting unit number: 1005

Primary contact:

First name: Melissa

Last name: McChesney

Email: mmcchesney@padre.org

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.

[Link to FAQs](#)

[View MOU](#)

2010

BMP 1.2 Water Loss Control

AWWA Water Audit

Agency to complete a Water Audit & Balance Using The AWWA Software ☒ Yes ☐ No
Email to natalie@cuwcc.org - Worksheets (AWWA Water Audit). Enter the name of the file below:

PadreDamWaterAudit2010.xls

Water Audit Validity Score
from AWWA spreadsheet

88

Agency Completed Training In The AWWA Water Audit Method ☐ Yes ☒ No

Agency Completed Training In The Component Analysis Process ☐ Yes ☒ No

Completed/Updated the Component Analysis (at least every 4 years)? ☐ Yes ☒ No

Component Analysis Completed/Updated Date

Water Loss Performance

Agency Repaired All Reported Leaks & Breaks To The Extent Cost Effective ☒ Yes ☐ No

Recording Keeping Requirements:

Date/Time Leak Reported	Leak Location
Type of Leaking Pipe Segment or Fitting	Leak Running Time From Report to Repair
Leak Volume Estimate	Cost of Repair

Agency Located and Repaired Unreported Leaks to the Extent Cost Effective ☒ Yes ☐ No

Type of Program Activities Used to Detect Unreported Leaks

We bring in a third party agency when necessary.

Annual Summary Information

Complete the following table with annual summary information (required for reporting years 2-5 only)

Total Leaks Repaired	Economic Value Of Real Loss	Economic Value Of Apparent Loss	Miles Of System Surveyed For Leaks	Pressure Reduction Undertaken for loss reduction	Cost Of Interventions	Water Saved (AF/Year)

Comments:

AWWA WLCC Free Water Audit Software: Reporting Worksheet

Copyright © 2010, American Water Works Association. All Rights Reserved.

WAS v4.2

[Back to Instructions](#)[?](#) Click to access definitionWater Audit Report for: **Padre Dam Municipal Water District**Reporting Year: **40796** 7/2009 - 6/2010

Please enter data in the white cells below. Where available, metered values should be used; if metered values are unavailable please estimate a value. Indicate your confidence in the accuracy of the input data by grading each component (1-10) using the drop-down list to the left of the input cell. Hover the mouse over the cell to obtain a description of the grades

All volumes to be entered as: ACRE-FEET PER YEAR

WATER SUPPLIED

<< Enter grading in column 'E'

Volume from own sources:	?	?		acre-ft/yr
Master meter error adjustment (enter positive value):	?	?		acre-ft/yr
Water imported:	?	10	15,790.300	acre-ft/yr
Water exported:	?	10	3,331.800	acre-ft/yr
WATER SUPPLIED:			12,458.500	acre-ft/yr

AUTHORIZED CONSUMPTION

Billed metered:	?	10	11,844.000	acre-ft/yr
Billed unmetered:	?	?		acre-ft/yr
Unbilled metered:	?	?		acre-ft/yr
Unbilled unmetered:	?	?	155.731	acre-ft/yr
Default option selected for Unbilled unmetered - a grading of 5 is applied but not displayed				
AUTHORIZED CONSUMPTION:	?		11,999.731	acre-ft/yr

Click here: [?](#)
for help using option
buttons belowPct: [100](#) Value: [?](#)Use buttons to select
percentage of water supplied
OR
valueWATER LOSSES (Water Supplied - Authorized Consumption) **458.769** acre-ft/yr

Apparent Losses

Unauthorized consumption:	?	?	31.146	acre-ft/yr
Default option selected for unauthorized consumption - a grading of 5 is applied but not displayed				
Customer metering inaccuracies:	?	8	119.636	acre-ft/yr
Systematic data handling errors:	?	?		acre-ft/yr
Systematic data handling errors are likely, please enter a non-zero value; otherwise grade = 5				
Apparent Losses:	?		150.782	

Pct: [100](#) Value: [?](#)1.00 [?](#) [?](#)Choose this option to
enter a percentage of
billed metered
consumption. This is
NOT a default value

Real Losses (Current Annual Real Losses or CARL)

Real Losses = Water Losses - Apparent Losses:	?	?	307.986	acre-ft/yr
WATER LOSSES:			458.769	acre-ft/yr

NON-REVENUE WATER

NON-REVENUE WATER: [?](#) [?](#) **614.500** acre-ft/yr

= Total Water Loss + Unbilled Metered + Unbilled Unmetered

SYSTEM DATA

Length of mains:	?	10	369.0	miles
Number of active AND inactive service connections:	?	8	23,173	
Connection density:	?	?	60	conn./mile main
Average length of customer service line:	?	9	20.0	ft
(pipe length between curbstop and customer meter or property boundary)				
Average operating pressure:	?	?	100.0	psi

COST DATA

Total annual cost of operating water system:	?	10	\$30,682,068	\$/Year
Customer retail unit cost (Applied to Apparent Losses):	?	8	\$4.07	\$/100 cubic feet (ccf)
Variable production cost (Applied to Real Losses):	?	?	\$1,754.34	\$/acre-ft

PERFORMANCE INDICATORS

Financial Indicators

Non-revenue water as percent by volume of Water Supplied:	4.9
Non-revenue water as percent by cost of operating system:	3.5
Annual cost of Apparent Losses:	\$267,321
Annual cost of Real Losses:	\$540,312

Operational Efficiency Indicators

Apparent Losses per service connection per day:	5.81	gallons/connection/day
Real Losses per service connection per day*:	11.87	gallons/connection/day
Real Losses per length of main per day*:	N/A	
Real Losses per service connection per day per psi pressure:	0.10	gallons/connection/day/psi
? Unavoidable Annual Real Losses (UARL):	696.83	acre-feet/year
From Above, Real Losses = Current Annual Real Losses (CARL):	307.99	acre-feet/year
? Infrastructure Leakage Index (ILI) (CARL/UARL):	0.44	

* only the most applicable of these two indicators will be calculated

WATER AUDIT DATA VALIDITY SCORE:

*** YOUR SCORE IS: 88 out of 100 ***

A weighted scale for the components of consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION:

Based on the information provided, audit accuracy can be improved by addressing the following components:

1: Unauthorized consumption

2: Systematic data handling errors

3: Variable production cost (applied to Real Losses)

For more information, click here to see the Grading Matrix worksheet

The fields in red are required.

Primary contact:

Agency name: Padre Dam Municipal Water District

First name: Melissa

Reporting unit name

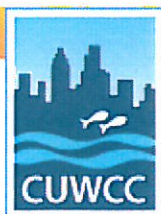
(District name) Padre Dam Municipal Water District

Last name: McChesney

Reporting unit number: 1005

Email: mmcchesney@padre.org

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.



BMP 1.3 Metering with Commodity 2010

[Link to FAQs](#)

See the complete MOU: [View MOU](#)

See the coverage requirements for this BMP:

Implementation

Does your agency have any unmetered service connections?

☐ Yes ☒ No

If YES, has your agency completed a meter retrofit plan?

☐ Yes ☒ No

Enter the number of previously unmetered accounts fitted with meters during reporting year:

Are all new service connections being metered?

☒ Yes ☐ No

Are all new service connections being billed volumetrically?

☒ Yes ☐ No

Has your agency completed and submitted electronically to the Council a written plan, policy or program to test, repair and replace meters?

☒ Yes ☐ No

Please Fill Out The Following Matrix

Account Type	# Metered Accounts	# Metered Accounts Read	# Metered Accounts Billed by Volume	Billing Frequency Per Year	# of estimated bills/yr
Single-Family	19,530	19,530	19,530	Bi-monthly	103
Multi-Family	1,700	1,700	1,700	Bi-monthly	16
Commercial	1,152	1,152	1,152	Bi-monthly	8
Dedicated Irrigatic	538	538	531	Bi-monthly	2
Agricultural	4	4	4	Monthly	0
Fire Lines	10	10	0	Bi-monthly	0
Other	29	29	29	Bi-monthly	0
Other				Other	
Other				Other	
Other				Other	

Number of CII Accounts with Mixed-use Meters

614

Number of CII Accounts with Mixed-use Meters Retrofitted with Dedicated Irrigation Meters during Reporting Period

2

Feasibility Study

Has your agency conducted a feasibility study to assess the merits of a program to provide incentives to switch mixed-use accounts to dedicated landscape meters?

☐ Yes ☒ No

If YES, please fill in the following information:

A. When was the Feasibility Study conducted

B. Describe, upload or provide an electronic link to the Feasibility Study Upload File

File name(s): Email files to natalie@cuwcc.org

PadreDam_AMR.pdf

Web address(s) URL: comma-separated list

Comments:

All District meters were replaced with AMR technology during this fiscal year. The age

The fields in red are required.

Primary contact:

Agency name: Padre Dam Municipal Water District

First name:

Division name
(Reporting unit) Padre Dam Municipal Water Distr

Last name: McChesney

Reporting unit number: 1005

Email: mmcchesney@padre.org



Water Uses 2010

Potable Water Billed

Make sure to enter numbers in AF/Year.

[illegible]

Potable Water Un-Billed

[illegible]

Primary contact:

Padre Dam Municipal Water Distri+

First name:

Padre Dam Municipal Water District

Last name: McChesney

1005

Email: mmcchesney@padre.org



Water Uses 2010

Non-Potable Billed

[illegible]

Non-Potable Un-Billed

[illegible]

The fields in red are required.

Agency name: Padre Dam Municipal Water District

Reporting unit name

(District name) Padre Dam Municipal Water District

Reporting unit number: 1005

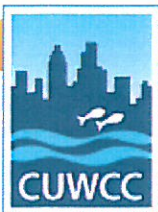
Primary contact:

First name: Melissa

Last name: McChesney

Email: mmcchesney@padre.org

You must enter the reporting unit number that we have on record for your agency. Click here to open a table to obtain this number.



2010

BMP 1.4 Retail Conservation Pricing

[Link to FAQs](#)

[View MOU](#)

If you are reporting more rate structures than this form allows, add the structures to a spreadsheet and send the file to natalie@cuwcc.org.

Implementation (Water Rate Structure)

Enter the Water Rate Structures that are assigned to the majority of your customers, by customer class

Rate Structure	Customer Class	Total Revenue	Commodity Charges	Total Revenue Customer Meter/Service (Fixed Charges)
Allocation Based	Other	19,914,215.00		4,585,277.00
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			

Implementation Option (Conservation Pricing Option)

- ☒ Use Annual Revenue As Reported
☐ Use Canadian Water & Wastewater Association Rate Design Model

If CWWA is select, enter the file name and email the spreadsheet to natalie@cuwcc.org

Retail Waste Water (Sewer) Rate Structure by Customer Class

Agency Provide Sewer Service

☒ Yes ☐ No

Select the Retail Waste Water(Sewer) Rate Structure assigned to the majority of your customers within a specific customer class.

Rate Structure	Customer Class	Total Revenue	Commodity Charges	Total Revenue Customer Meter/Service (Fixed Charges)
Other	Other	8,087,797.00		5,391,865.00
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			
Select a Rate Struc	Other			

Comments:

For both Water and Sewer, revenue is not tracked by customer class. Water's r

The fields in red are required.

Primary contact:

Agency name: Padre Dam Municipal Water District

First name: Melissa

Reporting unit name

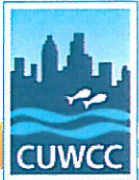
(District name) Padre Dam Municipal Water District

Last name: McChesney

Reporting unit number: 1005

Email: mmcchesney@padre.org

Click here to open a table that displays your agency name reporting unit name and reporting unit number. Please ensure that you enter the correct information.



[Link to FAQs](#)

[View MOU](#)

2010

BMP 2.1 Public Outreach - Retail Reporting

Is a Wholesale Agency Performing Public Outreach?

Are there one or more wholesale agencies performing public outreach which can be counted to help your agency comply with the BMP?

☒ Yes ☐ No

Enter the name(s) of the wholesale agency (comma delimited)

San Diego County Water Authority

Is your agency performing public outreach?

Report a minimum of 4 water conservation related contacts your agency had with the public during the year.

Public Information Programs List

Did at least one contact take place during each quarter of the reporting year? ☒

Number of Public Contacts	Public Information Programs
8	Newsletter articles on conservation
25	Flyers and/or brochures (total copies), bill stuffers, messages printed on bill, information packets
8	Website
12	General water conservation information
	Select a public contact

Contact with the Media

Are there one or more wholesale agencies performing media outreach which can be counted to help your agency comply with the BMP?

☒ Yes ☐ No

Enter the name(s) of the wholesale agency (comma delimited)

San Diego County Water Authority

OR Retail Agency (Contacts with the Media)

Did at least one contact take place during each quarter of the reporting year? ☒

Media Contacts List

Number of Media Contacts	Did at least one contact take place during each quarter of the reporting year?	Media Contact Types
6		News releases
9		Articles or stories resulting from outreach
38		Newspaper contacts
26		Television contacts
6		Radio contacts
		Select a type of media contact

Is a Wholesale Agency Performing Website Updates?

Did one or more CUWCC wholesale agencies agree to assume your agency's responsibility for meeting the requirements of and for CUWCC reporting of this BMP? ☐ Yes ☐ No

Enter the name(s) of the wholesale agency (comma delimited)

San Diego County Water Authority

Is Your Agency Performing Website Updates?

Enter your agency's URL (website address):

www.padredam.org

Describe a minimum of four water conservation related updates to your agency's website that took place during the year:

Conservation Program Updates - Residential and Commercial
Water Supply Information
Drought Messaging
Web Links to conservation tip sites, including: Save our Water and 20-gallon challenge

Did at least one Website Update take place during each quarter of the reporting year? ☐ Yes ☐ No

Public Outreach Annual Budget

Enter budget for public outreach programs. You may enter total budget in a single line or break the budget into discrete categories by entering many rows. Please indicate if personnel costs are included in the entry.

Category	Amount	Personnel Costs Included? <small>If yes, check the box.</small>	Comments
Public Outreach	\$315,000	<input checked="" type="checkbox"/>	All program costs and staff expenditures
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	

Comments:

The fields in red are required

Primary contact:

Click here to open a table that displays your agency name reporting unit name and reporting unit number. Please ensure that you enter the correct information.



Agency name: Padre Dam Municipal Water District

First name: Melissa

Reporting unit name (District name): Padre Dam Municipal Water District

Last name: McChesney

Reporting unit number: 1005

Email: mmcchesney@padre.org

[Link to FAQs](#)

[View MOU](#)

2010

BMP 2.2 School Education Programs, Retail Agencies School Programs

Is a wholesale agency implementing school programs which can be counted to help your agency comply with this BMP?

☒ Yes ☐ No

Enter Wholesaler Names, separated by commas:

San Diego County Water Authority

☒ Materials meet state education framework requirements?

Description of Materials

3rd & 4th grade history video/dvd, "Give Water a Second Chance. Re-cycle it!" for 5th grade, Be Water Smart DVD, Water Quality Testing Kit for high school science teachers' classroom use, Water Science in a Box for 1st, 2nd and 3rd grades, Watersheds, Water & You" student workbook for 5th grade, Water Works! school-to-career workbook, Water Smart garden curriculum

☒ Materials distributed to K-6 Students?

Description of materials distributed to K-6 Students

3rd & 4th grade history video/dvd, "Give Water a Second Chance...Recycle it!" Booklet for 5th grade, Be Water Smart DVD for 4th-6th grades

Number of students reached

5,780

☒ Materials distributed to 7-12 Students?

Description of materials distributed to 7-12 Students

Water Quality testing kits to high school science teachers for use in their classrooms, Splash Science Lab

Number of Distribution

60

Annual budget for school education program

\$9,000.00

Description of all other water supplier education programs

Traveling Library Program, Youth and Scout Merit Patch Program, 20-Gallon Challenge Student Pledge Contest, WaterSm "ART" Essay Contest, Splash Science Mobile Lab, H2O Where Did You Go? Theatre Program

School Program Activities

Classroom presentations:

Number of presentations

47

Number of attendees

1183

Large group assemblies:

Number of presentations

13

Number of attendees

1511

Children's water festivals or other events:

Number of presentations

0

Number of attendees

0

Cooperative efforts with existing science/water education programs (various workshops, science fair awards or judging) and follow-up:

Number of presentations

1

Number of attendees

60

Other methods of disseminating information (i.e. themed age-appropriate classroom loaner kits):

Description		
Number distributed		
Staffing children's booths at events & festivals:		
Number of booths	2	Number of attendees 1000
Water conservation contests such as poster and photo:		
Description Water Conservation Poster Contest - invited all 1-8 grade students in Padre Dam's service area to participate in a poster contest by drawing an image and creating a message about water conservation.		
Number distributed	250 entries	
Offer monetary awards/funding or scholarships to students:		
Number Offered	0	Total Funding 0
Teacher training workshops:		
Number of presentations	2	Number of attendees 3
Fund and/or staff student field trips to treatment facilities, recycling facilities, water conservation gardens, etc.:		
Number of tours or field trips	37	Number of participants 773
College internships in water conservation offered:		
Number of internships	0	Total funding 0
Career fairs/workshops:		
Number of presentations	3	Number of attendees 1000+
Additional program(s) supported by agency but not mentioned above:		
Description		
Number of events (if applicable)	0	Number of participants 0
Total reporting period budget expenditures for school education programs (include all agency costs):		\$8483.58

Comments



TARGETS / COMPLIANCE (CUWCC MOU)

Baseline / Initial GPCD

(Use option buttons to select)

GPCD in 2006 ☒

162.7
162.2

Baseline GPCD (1997 to 2006) ☐

GPCD in 2010 ☐

121.3
133.4

GPCD Target for 2018

Potable Water GPCD for each Year in the Baseline Period

Year	GPCD
2006	162.7
2005	156.9
2004	173.2
2003	159.9
2002	169.4
2001	160.0
2000	174.9
1999	158.1
1998	141.1
1997	166.0

Biennial GPCD Compliance Table

Year	Report	Target		Highest Acceptable Bound	
		% Base	GPCD	% Base	GPCD
2010	1	96.4%	156.9	100%	162.7
2012	2	92.8%	151.0	96.4%	156.9
2014	3	89.2%	145.1	92.8%	151.0
2016	4	85.6%	139.3	89.2%	145.1
2018	5	82.0%	133.4	82.0%	133.4

Monthly GPCD Data for Weather Normalization

Fiscal Year Ending	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
2010	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3
Baseline avg*	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2	162.2

* The average for each month is based on the baseline period 1997 to 2006



California Urban Water Conservation Council

TARGETS / COMPLIANCE (SBx7-7)

Target Summary	2020	2015
Method 1	130.2	146.4
Method 2	N/A	N/A
Method 3	141.6	152.1
Method 4	0.0	0.0

Input cells:
Calculated cells:

GPCD in 2010	121.3
Base daily per capita water use (10-15yr baseline)	162.7
Base daily per capita water use (5yr baseline)	160.9
Max. allowable GPCD target in 2020 (95% x 5yr baseline)	152.9

Method 1: Baseline per Capita Water Use

80% x Base daily per capita water use (10-15yr baseline):

130.2

2015 Target: 146.4
2020 Target: 130.2

Method 3: Hydrologic Region Targets

Enter the percentage of your service area population in each hydrologic region

Region	Region Name	% Population	GPCD Target
1	North Coast		137
2	San Francisco Bay		131
3	Central Coast		123
4	South Coast	100.0%	149
5	Sacramento River		176
6	San Jacinto		174
7	Tulare lake		188
8	North Lahontan		173
9	South Lahontan		170
10	Colorado River		211

100.0%

2015 Target: 152.1
2020 Target: 141.6

Method 2: Performance Standards

TM 2 Indoor Water Use allowance:

0.0

TM 6 Landscaped Area Water Use:

0.0

TM 7 Baseline CII Water Use:

0.0

2015 Target: N/A
2020 Target: N/A

Method 4:

To be Developed